

Elm Bend Road (SR 1543)

from US 276 to Wilson Road (SR 1504)

Local ID: **TRAN0034-H**Purpose: **Facility Deficiencies**Improvement: **Improve Existing****Identified Need**

Elm Bend Road (SR 1543) has no paved shoulder and lane widths of 9 feet. The crossing of the French Broad River has been closed due to flooding on multiple occasions.

Recommendation

Improve alignment, lane widths, and shoulders to current design standards, including 5-foot paved shoulders. Improve Resiliency to flooding



| | Local ID # | Improve | New Location | | Local ID # | Improve | New Location |
|--------------------------------|------------|---------|--------------|-------------------|------------|---------|--------------|
| Congestion / Mobility | # | — | — | Interchange | ⊙ | □ | ■ |
| Access Management / Operations | # | — | — | Bridge / Overpass | ⊙ | ○ | ● |
| Modernization | # | — | — | Intersection | ⊙ | ∠ | ▲ |
| Other | # | — | — | | | | |

Proposal At A Glance

| | |
|---------------------|--------------------|
| Highway Class | Other |
| Facility Type | Minor Thoroughfare |
| Typical Section | 02 E |
| Section Options | - |
| Estimated Cost | - |
| Length (miles) | 1.34 |
| Existing ROW (feet) | 60 |
| Safety Risk Score | - |

Proposal Data: 2017 Base Year 2045 Future Year

| Improved Route | Existing | Without Proposal | With Proposal |
|-----------------------|--------------------|--------------------|--------------------|
| Facility Type | Minor Thoroughfare | Minor Thoroughfare | Minor Thoroughfare |
| Travel Lanes | 2 | 2 | 2 |
| Volume (vpd) | 2200-3200 | 3300-4600 | - |
| Capacity (vpd) | 10200 | 10200 | 10200 |

Capacity Data: Year

| | |
|----------------------------------------------|---|
| Facility will be Approaching Capacity (>80%) | - |
| Facility will be Over Capacity (>=100%) | - |

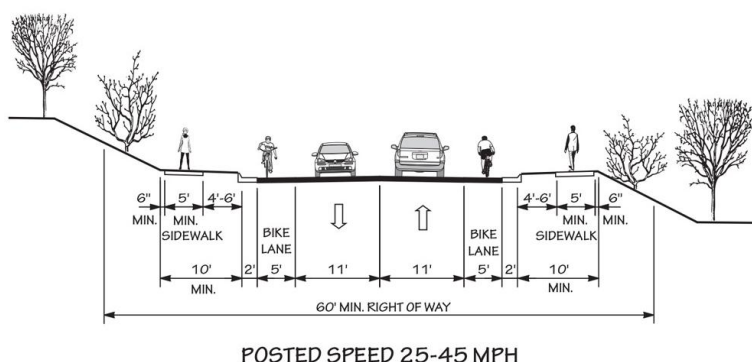


Typical Section Options:

None

TYPICAL SECTION No. 2E

2 LANE UNDIVIDED WITH CURB & GUTTER, BIKE LANES, AND SIDEWALKS

**Project Overview****Linkage to Other Plans**

This facility is classified as a major collector on the Federal Functional Classification System.

Multi-Modal Considerations

Transylvania County Transit, under the name "Transylvania in Motion" operates a fixed route as well as demand response system within the county. The deviated-fixed route does not reach this facility; however, it is within the demand-response area.

Bike Lanes are recommended along this facility from US 276 to Wilson Road (SR 1504) in concurrence with the Transylvania County Bicycle Plan (2019). As per the City of Brevard Comprehensive Pedestrian Plan (2006/2018), sidewalks are recommended along this facility from US 276 to the Brevard City Limits. This includes service to the Brevard Elementary School.

Goals & Objectives Survey

The citizens of Transylvania County responded to a public survey in early 2019 with a great deal of support for new greenways, sidewalks, and multi-use paths. When asked for their top three most important project types, these categories ranked first, third and fifth, out of a dozen choices. Rounding out the top five were maintenance and safety projects at second and fourth respectfully. When asked to rank transportation goals, the respondents gave two, preservation of the natural beauty and community character and increasing the number transportation mode choices, substantial net positive scores; improved connectivity, and economic development about neutral; and improved travel time was poorly scored, receiving over 50% of the lowest rank.

Natural & Human Environmental Context

Based on planning level environmental assessment using available GIS data, the proposed project intersects the French Broad River local watershed. The project is in proximity of one place of worship, the historic William H. Grogan House, and the East Main Street Historic District. From the French Broad River east, Elm Bend Rd is in the 100-year floodplain.